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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,189	10/25/2004	Gang Wu	4035-0167PUS1	9210
2292	7590 07/27/2005		EXAMINER	
	EWART KOLASCH &	APPIAH, CHARLES NANA		
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
	,		2686	
			DATE MAILED: 07/27/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/500,189	WU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Charles N. Appiah	2686				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from to , cause the application to become ABANDONED	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25 O	ctober 2004.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3)☐ Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.		,				
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	5)☐ Claim(s) is/are allowed. 6)☑ Claim(s) <u>1-11</u> is/are rejected.					
	7) Claim(s) <u>12 and 13</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers		•				
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior		d in this National Stage				
application from the International Bureau	* **					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da					
Paper No(s)/Mail Date	6) Other:	Acon Application (F10-152)				

#### **DETAILED ACTION**

### Claim Objections

1. Claims 12-13 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot serve as the basis for another multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 12-13 have not been further treated on the merits.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 6/3, 9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Silver et al. (5,701,337).

Regarding claim 1, Silver discloses a wireless communication method (see Fig. 7), for performing wireless communication between a calling side and a called side, the wireless communication method using a wide-area wireless communication system capable of wireless calling (paging network 49), and a wireless communication system capable of data communication (cellular network 43), the method comprising: a call sending step of sending a call to the called side by the calling side (inherent feature of receiving incoming call at cellular network, step 81, col. 6, lines 48-49), a calling step of using the wide-area wireless communication system to call receiving means in a wireless communication terminal of the called side (transmit mobile paging signal to

mobile phone portion, steps 83, 85, 89, 91, col. 6, lines 50-53), a calling detecting step of detecting, by the wireless communication terminal, calling from the wide-area wireless communication system (pager portion (pager portion receiving paging signal, step 93, col. 6, lines 53-57), a calling notifying step of notifying, by the receiving means in the wireless communication terminal, wireless communication controlling wireless communication means that the receiving means has been called, (pager portion activates mobile phone portion, step 95, col. 7, lines 1-8), a connecting step of connecting to the wireless communication system by the wireless communication means (mobile phone portion registers with cellular network, step 97, col. 7, lines 9-10), a communicating step of performing wireless communication between the calling side and the called side (cellular phone routing call inherently between calling terminal and the called terminal, step 99, col. 7, lines 10-12), and a disconnecting step of disconnecting connection to the wide area wireless communication system by at least one of the calling side and the called side (turning off mobile phone portion after completion of each call, step 101, col. 7, lines 7-12).

Regarding claim 2, Silver further discloses wherein, in the communication step, a speech conversation is performed (routing of call to the mobile portion in the normal manner inherently leads to performance of speech conversation, see col. 7, lines 10-12).

Regarding claim 3, Silver discloses a wireless communication system (see Figs. 6-7), capable of data communication, comprising: a calling terminal for a calling side to perform communication (incoming call received at cellular network is made by

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calling terminal, step 81), a network to which the calling terminal is connected (cellular network 43), a wireless communication base station (inherent in cellular network, 43), and a wide area wireless communication base station which are connected to the network (inherent in paging network, 49), and a wireless communication terminal for a called side to perform communication (combined mobile phone/pager 1), wherein the wireless communication terminal simultaneously comprises receiving means for receiving a call from the wide-area wireless communication base station (feature of receipt of paging signal 51, col. 6, lines 34-36), and communication means for performing data communication with the wireless communication base station (call being routed to terminal 1 from cellular network).

Regarding claim 6/3, Silver further discloses wherein, the inherent wide area wireless base station is a pager base station (inherent in pager network 49) and the wireless terminal includes receiving means corresponding to the pager base station (pager portion of terminal 1 receiving page signal 51), and the wireless communication system is a wireless telephone system using a cellular phone or a PHS (see cellular network 43).

Regarding claim 9, Silver discloses a wireless communication terminal (1), capable of communicating with both a wide area wireless communication system capable of wireless calling (paging network 49), and a wireless communication system capable of data communication (cellular network 43), the wireless communication terminal comprising: receiving means for receiving a wireless call in the wide area wireless communication system (page 510, calling information recognizing means for

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recognizing information concerning a calling side and calling details, the information being included in the wireless call (see col. 6, line 61 to col. 7, line 8), and wireless communication means for performing wireless communication in the wireless communication system when the calling information recognizing means requests wireless communication to start (see col. 7, lines 1-16).

Regarding claim 10, Silver further discloses wireless communication means activating means (pager portion activates mobile phone portion, see col. 7, lines 1-10), in a configuration in which the wireless communication means in the wireless communication terminal is normally in an inactivated state when the calling information requests wireless communication to start, the wireless communication means activating means changes the wireless communication means to be activated (see col. 7, lines 1-16).

4. Claims 7 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujimori et al. (6,327,475).

Regarding claim 7, Fujimori discloses a wide-area wireless communication base station for a wide area wireless communication system (see Fig. 6) in which a calling side is capable of calling a called side, the base station comprising a plurality of means: network connecting means for connecting to a network which is not for the wide area wireless communication (see connection to telephone line), calling-request receiving means for receiving a calling request using an identification number on the network for a wireless terminal of the called side (receiving section 11 receives telephone numbers and a message, col. 7, lines 43-46), intersystem identification number converting means

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for converting an identification number on the network to an identification number in the wide area wireless communication system (conversion section converts the telephone number into paging signal, col. 7, lines 46-52), and a calling means for calling the wireless communication terminal by using an identification number in the wide area wireless communication system, transmission of paging signal and the message by radio, see col. 7, lines 50-52, col. 8, lines 11-35).

Regarding claim 8, Fujimori further discloses wherein the wide area communication system is a pager system (paging system, col. 8, lines 21-42).

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 4, 6/4 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Silver et al** as applied to claims above, and further in view of **Tran (6,496,693).**

Regarding claims 4 and 11, Silver further discloses as illustrated in Fig. 1, audio input/output means for outputting the audio obtained by conversion and inputting of audio (see microphone/speaker which is standard to mobile phone/pager 1), but fails to explicitly teach audio and/or audio/data conversion means for performing mutual conversion between audio information and data information.

In an analogous field of endeavor, Tran discloses a method for transmitting data and/or audio messages through transforming a voice message into a text message and using speech recognition (see col. 1, line 55 to col. 2, line 2, col. 4, lines 20-41).

It would therefore have been obvious to one of ordinary skill in the art to incorporate Tran's text to speech and speech to text technology into Silver's mobile phone /pager terminal in order to facilitate the capability of receiving messages in different formats such as text or voice.

Regarding claim 6/4, Silver further discloses wherein, the inherent wide area wireless base station is a pager base station (inherent in pager network 49) and the wireless terminal includes receiving means corresponding to the pager base station (pager portion of terminal 1 receiving page signal 51), and the wireless communication system is a wireless telephone system using a cellular phone or a PHS (see cellular network 43).

7. Claim 5/3 and 5/4 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Silver et al.** as applied to claim 3 and 4 above, and further in view of **Blink et al.** (6,542,751).

Regarding claim 5, Silver further discloses wherein the wide area wireless communication base station is a pager base station (inherent in paging network 49) and the wireless terminal includes receiving means corresponding to the pager base station (page 51 reception capability), but fails to specifically disclose that the wireless communication system is a wireless LAN, WAN, PAN, or ITS system.

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Blink discloses a multi-mode paging system that can selectively page an individual through a plurality of paging mechanisms (see col. 1, line 54 to col. 2, line 3). According to Blink, the processor-based paging unit can be used in a Local Area Network (LAN), wide area pager (see Fig. 1, col. 2, line 46 to col. 3, line 8).

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It would therefore have been obvious to one of ordinary skill in the art to use Silver's combined mobile phone/pager as a multi-mode terminal capable of communicating in different systems such as a LAN in order to provide greater flexibility and roaming capabilities as taught by Blink.

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Levanto et al. (5,175,758) discloses a cellular telephone system integrated with a paging network.

Reding et al. (6,188,907) discloses an apparatus for implementing a telephone communication system incorporating pager features.

Gaulke et al. (5,802,470) discloses a system for call completion using a paging network.

Miyazaki et al. (5,867,779) discloses a paging terminal capable of being use in a mobile data communication system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles N. Appiah whose telephone number is 571 272-7904. The examiner can normally be reached on M-F 7:30AM-5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on 571 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CA

CHARLES APPIAH PRIMARY EXAMINER